Response to Non-Final Office Action dated March 15, 2011

## **AMENDMENTS TO THE CLAIMS**

Docket No.: 62799(71699)

Please amend the claims as follows. The below listing of claims will replace all prior versions, and listings, of claims in the application:

- 1. (Currently amended) An apparatus for arraying particles, the apparatus comprising: a) a substrate comprising an array of electrodes; b) a counter-electrode plate substantially parallel to the array of electrodes; and c) a flow chamber comprising a fluid inlet for permitting a particle-containing fluid to flow between the array of electrodes and the counter-electrode plate, wherein the count-electrode plate forms the lid of the flow chamber.
- 2. (Original) The apparatus of claim 1, wherein the apparatus further comprises a voltage source for applying a voltage between the array of electrodes and the counter- electrode.
- 3. (Original) The apparatus of claim 2, wherein the voltage source provides a voltage of not greater than about 100 volts/mm.
- 4. (Original) The apparatus of claim 1, wherein the substrate comprises at least one cell-adhesive region and at least one non-cell-adhesive region.
- 5. (Currently amended) The apparatus of claim 14, wherein the cell adhesive region comprises a layer of fibronectin or collagen.
- 6. (Original) The apparatus of claim 1, further comprising a fluid outlet.
- 7. (Original) The apparatus of claim 1, wherein the electrode array comprises at least 50 electrodes.
- 8. (Original) The apparatus of claim 1, wherein the electrode array comprises at least 100 electrodes.
- 9. (Original) The apparatus of claim 1, wherein each electrode of the electrode array is less than 100 microns in diameter.
- 10. (Original) The apparatus of claim 1, wherein each electrode can be energized independently.

substrate.

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- 11 (Original) A method for arraying particles on a surface, the method comprising: a) providing an apparatus comprising: i) a substrate comprising an array of electrodes; ii) a counter-electrode plate substantially parallel to the array of electrodes; iii) a fluid inlet for permitting a flow of particle-containing fluid between the array of electrodes and the counter-electrode plate; b) flowing a particle-containing fluid between the array of electrodes and the counter-electrode plate; and c) subjecting the fluid to an electric field by applying an electric potential to the array
- 12. (Original) The method of claim 11, wherein the particles are cells.
- 13. (Original) The method of claim 12, wherein the substrate comprises at least one cell-adhesive region and at least one non-cell-adhesive region.

of electrodes under conditions such that particles in the fluid are arrayed on a surface of the

14. (Original) The method of claim 13, wherein the cell adhesive region comprises a layer of fibronectin or collagen.